

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-241694

(43)Date of publication of application : 08.09.2000

(51)Int.Cl.

G02B 7/04

G02B 7/08

(21)Application number : 11-041183

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(22)Date of filing : 19.02.1999

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(54) LENS MOUNT

(57)Abstract:

**PROBLEM TO BE SOLVED:** To increase speed and reduce consumed power during lens drive of a focus, by arranging a position detecting means at a substantially symmetric magnetic center position in a view from the driving direction of a magnetic circuit of a linear actuator constituted with a magnet and a yoke having projections for engagement.

**SOLUTION:** A yoke 36 is provided with two projections 36a for engagement, and therefore, magnetic flux leaks to outside around the projections 36a. Therefore, since the magnetic flux leaks to outside around the projections 36a provided on the X-axis (+) side to break balance of a magnetic circuit, a magnetic center position moves in the X-axis (-) direction. Therefore, flow way of the magnetic flux leaked to the outside of the yoke 36 also changes. A magnetic sensor 41 is placed at a position shifted in the X-axis (-) direction by a moving distance of the magnetic center position. As a result, the leaked magnetic flux in the X-axis direction is micro, and therefore, output of the magnetic sensor 41 does not distort. The magnetic center position can be moved by optimizing the length of these projections 36a.

